

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P223654

Luminaire Tested: **LSSQWM2B05SP159050D010 2LBDL\*B**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( 150)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSSQWM2B05SP159050D010 2LBDL\*B  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
SPOT OPTIC  
LENSED SPUN ROUND TRIM WITH BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 358.0 lumens  
Efficiency: N/A  
Efficacy: 49.0 lumens/watt  
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.23  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98	98	98	98
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96	96	96	96
3	110	106	103	101	108	105	102	100	102	100	98	100	99	97	98	97	96	94	94	94	94
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93	93	93	93
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	95	94	92	91	91	91	91
6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	90	90	90	90
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	88	88	88	88
8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	90	88	87	87	87	87
9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	86	86	86	86
10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	85	85	85	85

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1720281
5°	1243581
10°	362052
15°	127040
20°	54370
25°	24489
30°	9482
35°	4729
40°	3135
45°	2027
50°	1145
55°	810
60°	465
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.3	63.2
10°-20°	92.1	25.7
20°-30°	28.3	7.9
30°-40°	7.0	1.9
40°-50°	2.9	0.8
50°-60°	1.2	0.3
60°-70°	0.2	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	346.7	96.8
0°-40°	353.6	98.8
0°-60°	357.8	99.9
0°-90°	358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	358.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4441	
5°	3198	226
15°	317	92
25°	57	28
35°	10	7
45°	4	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4441.2
1°	4373.3
2°	4207.8
3°	3943.9
4°	3599.1
5°	3198.3
6°	2746.5
7°	2256.1
8°	1758.8
9°	1293.9
10°	920.5
11°	659.7
12°	496.0
13°	403.9
14°	353.5
15°	316.8
17.5°	195.4
20°	131.9
22.5°	88.4
25°	57.3
27.5°	34.9
30°	21.2
32.5°	13.7
35°	10.0
37.5°	8.1
40°	6.2
42.5°	5.0
45°	3.7
47.5°	2.5
50°	1.9
52.5°	1.9
55°	1.2
57.5°	1.2
60°	0.6
62.5°	0.6
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0



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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)